

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for setting a home code of a home network system having a first adaptor connected with a network managing unit, and second adaptors connected to the first adaptor through a power line or by wireless and respectively connected with appliances, the method comprising the steps of:

creating the home code of the first adaptor;

determining whether or not the home code is duplicated; and

if the home code is not duplicated, setting the home code of the first adaptor to the second adaptors, wherein the first adaptor corresponds to the network managing unit that manages the appliances.

2. (Original) The method of claim 1, wherein the home code of the first adaptor is created by combining a timing count value and an initial code value of the first adaptor.

3. (Original) The method of claim 1, wherein the home code of the first adaptor is randomly created using a random number generator.

4. (Original) The method of claim 1, wherein the determining step comprises the steps of:

transmitting a request packet from the network managing unit to the first adaptor;

adding the home code of the first adaptor to the request packet;
transmitting the request packet having the home code to other networks by wireless or through the power line; and
determining that the home code is not duplicated in case there is no response signal to the request packet, and determining that the home code is duplicated in case there is the response signal to the request packet.

5. (Original) The method of claim 1, wherein if the home code is duplicated, the home code of the first adaptor is deleted.

6. (Currently Amended) A method for setting a home code of a home network system having a first adaptor connected with a network managing unit, and second adaptors connected to the first adaptor through a power line or by wireless and connected with each of a plurality of appliances, the method comprising the steps of:

transmitting a home code create command to the first adaptor from the network managing unit according to a user's command, the network managing unit managing the plurality of appliances;

creating a home code according to the home code create command at the first adaptor;
determining whether or not the home code is duplicated by the first adaptor;
if the home code is not duplicated, transmitting a home code setting command from the network managing unit to the first adaptor; and

setting the home code of the second adaptors according to the home code setting command at the first adaptor.

7. (Original) The method of claim 6, further comprising the step of determining whether the appliance is initially installed or additionally installed, before the home code create command transmitting step.

8. (Original) The method of claim 6, wherein the home code of the first adaptor is created by combining a timing count value and an initial code value of the first adaptor.

9. (Original) The method of claim 6, wherein the home code of the first adaptor is randomly created using a random number generator.

10. (Original) The method of claim 6, wherein the determining step comprises the steps of:

transmitting a request packet from the network managing unit to the first adaptor; adding the home code of the first adaptor to the request packet;

transmitting the request packet having the home code to other networks by wireless or through the power line; and

determining that the home code is not duplicated in case there is no response signal to the request packet, and determining that the home code is duplicated in case there is the response signal to the request packet.

11. (Original) The method of claim 6, wherein the home code setting step comprises the steps of:

annexing the home code of the first adaptor to a head of the home code setting command; transmitting the home code setting command having the home code to the second adaptors; and

setting the home code annexed to the head of the home code setting command to the home code of the second adaptors.

12. (Original) The method of claim 6, wherein if the home code is duplicated, the home code of the first adaptor is deleted.